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TITLE: PREVENTIVE DEVICE FOR
TURBO-SUPERCHARGER FROM SEIZURE

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INVENTOR-INFORMATION:

NAME

YAMAZAKI, YOICHI

ASSIGNEE-INFORMATION:

NAME

YAMAZAKI YOICHI

COUNTRY

N/A

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ABSTRACT:

PURPOSE: To prevent a turbo-supercharger from seizure by providing relief valves on the lubricant supply line as in two steps in series, installing a pressure accumulating tank between the two relief valves, and by supplying lubricant to the turbo-supercharger from this tank.

CONSTITUTION: The engine lubrication system is to sens the lubricant fed by pressure from an oil pump 2, which is driven by the engine 1, to various parts of engine to be lubricated, through an oil cooler 4 and an oil filter 5. Part of the lubricant is sent to the turbo-supercharger 12 via a lubricant passage 48 diverging from this lubrication system, and is used there to as well lubricate as cool it 12. This lubrication system is equipped with relief valves 13, 19 in two steps in series. The relief valve 19 is installed on a piston 15 of a pressure accumulating tank 19 made in such a construction that the piston 15 energized by a spring 16 is accommodated in a cylinder 14. A lubricant passage 51 leading to the supercharger 12 shall be divergent from a

relief passage 49 at its point overstream the pressure
accumulating tank 19.

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